


Respectfully submitted,

Date: 20 June 2002

  
CHARLES N. QUINN  
Registration No. 27,223  
Attorney for Applicant

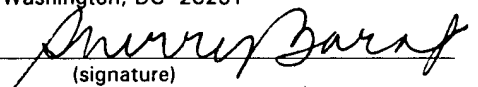
Fox, Rothschild, O'Brien & Frankel, LLP  
2000 Market Street, 10<sup>th</sup> Floor  
Philadelphia, PA 19103  
Tel: 215-299-2135  
Fax: 215-299-2150  
email: cquinn@frof.com

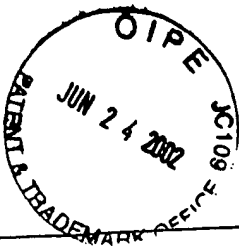
RECEIVED  
JUN 27 2002  
GROUP 3600

COPY OF PAPERS  
ORIGINALLY FILED

CERTIFICATE OF MAILING  
UNDER 37 C.F.R. 1.8(a)

I hereby certify that this paper, along with any paper referred to as being attached or enclosed, is being deposited with the United States Postal Service on the date indicated below, with sufficient postage, as first class mail, in an envelope addressed to: Commissioner for Patents, Washington, DC 20231

  
(signature)  
BY: Sherry BARAG  
DATE: June 20, 2002



ATTACHMENT 1

1. (Amended) Apparatus for providing granular material to a loading hopper preparatory to processing comprising:
  - a. [an at least partially transparent] a receptacle for receiving said material prior to processing thereof by machinery supplied by said hopper, having a top including first valve means for selectably connecting said receptacle to vacuum or ambient air;
  - b. means for drawing vacuum in said receptacle;
  - c. conduit means for connecting said receptacle to a supply of said granular material;
  - d. second valve means for selectably permitting material flow from said receptacle into said hopper;
  - e. means for temporally adjustably closing said first valve means and opening said second valve means responsively to [visually] detected presence of a suitable amount of material in said receptacle.
2. (Amended) Apparatus of claim 1 further comprising [baffle] means [at an inlet to said receptacle] for directionally deflecting flow of material into said receptacle from said conduit thereby reducing kinetic energy of said material.
3. (Amended) Apparatus for providing plastic resin material to a plurality of loading hoppers and maintaining said material in said hoppers at or above

COPY OF PAPERS  
ORIGINALLY FILED

GROUP 3600

JUN 27 2002

B

preselected levels preparatory to delivery of said material therefrom for processing comprising:

- a. a plurality of temporary material storage receptacles for receiving said plastic resin material prior to processing thereof by machinery supplied by respective ones of said hoppers;
- b. means for drawing vacuum in said receptacles;
- c. first valve means selectably connecting said receptacles with said vacuum drawing means;
- d. conduit means for connecting said receptacles to respective supplies of plastic resin material;
- e. second valve means for selectably permitting plastic resin material flow from said receptacles into associated hoppers;
- f. [manually] adjustable shutoff time control means for closing said first and second valve means, thereby permitting air flow into respective receptacles responsively to [visually] detected criteria respecting level of said plastic resin material in a receptacle of interest.

COPY OF PAPERS  
ORIGINALLY FILED

7. (Amended) Apparatus of claim 3 further comprising [baffle] means [within said receptacle proximate the inlet from said conduit means] for directionally plurally deflecting flow of airborne plastic resin material drawn into said receptacles from said conduit means thereby dissipating kinetic energy of said moving airborne resin material.

8. (Amended) Apparatus of claim 3 wherein said receptacle comprises [has a cast top including] means for connecting said receptacle to vacuum or ambient by simultaneously respectively opening one of said vacuum line connection means and said ambient air connection means and closing a remaining one of said means.

10. (Amended) A method for providing plastic resin material to a loading receptacle and periodically replenishing said receptacle with said material, comprising:

- a. drawing a vacuum within a receptacle thereby inducing plastic resin material flow from a plastic resin material supply into said receptacle and marking the commencement of said drawing as a vacuum drawing starting time; and
- b. stopping flow of material into said receptacle and marking said stoppage as a vacuum drawing stopping time responsively to [optically detected sensed] material level within said receptacle.

11. (Amended) The method of claim 10 further comprising repeatedly drawing said vacuum for a filling period defined by the difference between said starting and stopping times and adjusting said filling period if needed by changing said stopping time responsively to [observation of a] desired material level in said receptacle.

12. (Amended) The method of claim 10 wherein changing said filling period responsively to [observation of a] desired material level in said receptacle

COPY OF PAPERS  
ORIGINALLY FILED

B3  
is performed by actuating a switch during said filling period and deactuating said switch to define a new stopping time.

14. (Amended) A method for providing plastic resin material to a plurality of loading receptacles and periodically replenishing said receptacle with said material, comprising:

- B4
- a. drawing vacuum within said receptacles [serially] thereby inducing plastic resin material flow from a plastic resin material supply into each of said receptacles in [a selected] sequence and marking the commencement of said drawing for each of said receptacles as a vacuum drawing starting time for a receptacle of interest; and
  - b. stopping flow of material into said receptacles and separately marking said stoppage as a vacuum drawing stopping time for each of said receptacles responsively to [optically detected sensed] material level within each of said receptacles.

- B5
17. (Amended) The method of claim [16] 14 wherein a single switch is used to define a new stopping time for all of receptacles, as needed.

- B6
20. (Amended) Apparatus of claim 1 wherein said receptacle [is cylindrical and] includes a vertically extending transparent portion.



ATTACHMENT 3

25. Apparatus of claim 1 wherein said means for temporally adjustably closing said first valve and opening said second valve operates responsively to optically detected presence of a suitable amount of material in said receptacle.
26. Apparatus of claim 3 wherein said shutoff time control means operates responsively to optically detected criteria.
27. Apparatus of claim 1 wherein said receptacle includes a transparent wall portion in the area of the surface of said granular material when said suitable amount of material is present in said receptacle.
28. Granular plastic resin material processing apparatus comprising:
- a. a press for molding said granular plastic resin material;
  - b. a gravimetric blender for supplying a homogeneous blend of granular plastic resin material to said press; and
  - c. pneumatic feed means for supplying at least one component of said granular plastic resin material to said blender, comprising:
    - i. receptacle for receiving and temporarily storing said component prior to blending of same with other components by said blender including valve means for connecting said receptacle to vacuum and to ambient air;
    - ii. means for drawing vacuum in said receptacle;
    - iii. conduit means for connecting said receptacle to a granular plastic resin material supply of said component;

COPY OF PAPERS  
ORIGINALLY FILED

- B7
- iv. valve means for permitting granular plastic resin material flow from said receptacle to said blender; and
  - v. means for temporally adjustably closing said vacuum/ambient valve means and opening said receptacle/blender valve means responsively to presence of a suitable amount of said granular plastic resin material component being in said receptacle.
- 

COPY OF PAPERS  
ORIGINALLY FILED